



STIC Search Report

EIC 2100

STIC Database Tracking Number: 212893

**TO: Cheryl Lewis
Location: RND 3B07
Art Unit: 2167
Tuesday, January 16, 2007**

Case Serial Number: 10/780404

**From: Ruth E. Spink
Location: EIC 2100
RND-4B31
Phone: 23524**

Ruth.spink@uspto.gov

Search Notes

Cheryl- Attached is the foreign patent and NPL search for the above referenced case. Be sure to contact me if you wish to refocus this search.

Ruth



STIC EIC 2100 Search Request Form

212893

(56)

Today's Date:

January 16, 2007

What date would you like to use to limit the search? Japanese

Priority Date: 2/17/2004 Other: 3/17/2003 Patent 2003-089126

Name Cheryl Lewis

AU 2147 Examiner # 72314

Room # 3807 Phone 2-4113

Serial # 10/780,404

Format for Search Results (Circle One):

☒ PAPER☐ DISK☐ EMAIL

Where have you searched so far?

☒ USP☐ DWPI☐ EPO☐ IPO☐ ACM☐ IBM TDB☐ IEEE☐ INSPEC☐ SPI☐ OtherIs this a "Fast & Focused" Search Request? (Circle One) ☒ YES ☐ NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

Is this request for a BOARD of APPEALS case? (Circle One) YES ☐ NO ☐Is this case a SPECIAL CASE? (Circle One) YES ☐ NO ☐

Retrieving a target character string from an XML document. Determining if a first entry (text string) matches a node-type (stored character string position) in the document table. The node-type having a position (parent, level, etc.) in the XML document tree.

Determining if the entry matches a node-type's name Space ID (variable length), element name ID, and the kind of element contents or attribute data. If a match is determined, then extract the character string from the character string table, and output the character string to the retrieval result area.

STIC Searcher Ruth Spink Phone 1/16/07 2-3524

Date picked up 1/16/07 Date Completed 1/16/07



Set	Items	Description
S1	20962	S XML OR EXTENSIBLE() MARKUP() LANGUAGE
S2	2345	S S1 (10N) (RETRIEVE? ? OR RETRIEVING OR RETRIEVAL OR SEARCH?? OR SEARCHING OR SEEK? ? OR SEEKING OR FIND OR FINDING OR FOUND OR LOCATE? ? OR LOCATING OR LOCATOR? ?)
S3	91925	S (CHARACTER? ? OR STRING? ? OR PHRASE? ? OR KEYWORD? ? OR KEY()WORD? ? OR TERM? ? OR WORD? ?) (5N) (RETRIEVE? ? OR RETRIEVING OR RETRIEVAL OR SEARCH?? OR SEARCHING OR SEEK? ? OR SEEKING OR FIND OR FINDING OR FOUND OR LOCATE? ? OR LOCATING OR LOCATOR? ?)
S4	165	S S3 (10N) S1
S5	287	S S3 (30N) S1
S6	7379	S NODE? ? (3N) (TYPE OR TYPES OR SORT OR SORTS OR KIND OR KINDS)
S7	76494	S (CHARACTER? ? OR STRING? ? OR PHRASE? ? OR KEYWORD? ? OR KEY()WORD? ? OR TERM? ? OR WORD? ?) (5N) ((POSITION? ? OR PLACE OR PLACEMENT? ? OR LEVEL? ? OR SUBLEVEL?) OR PARENT? ? OR CHILD OR CHILDREN)
S8	69	S (NAME()SPACE? ? OR NAMESPACE? ?) () (ID OR IDENTIFICATION? ? OR IDENTIFIER? ?)
S9	3309481	S LENGTH OR LONG OR SIZE? ?
S10	19171	S ELEMENT? ? (3N) (NAME? ? OR TITLE? ? OR LABEL? ? OR ID OR IDENTIFICATION? ? OR IDENTIFIER? ?)
S11	17391	S ELEMENT? ? (3N) (ATTRIBUTE? ? OR PROPERTY OR PROPERTIES)
S12	12982	S ELEMENT? ? (3N) CONTENT? ?
S13	1	S S5 (30N) (S6 OR S7) (30N) (S8 OR S9) (30N) S10 (30N) (S11 OR S12)
S14	1	S S2 (30N) (S6 OR S7) (30N) (S8 OR S9) (30N) S10 (30N) (S11 OR S12)
S15	1	S S14 NOT S13
S16	1090	S (CHARACTER? ? OR STRING? ? OR PHRASE? ? OR KEYWORD? ? OR KEY()WORD? ? OR TERM? ? OR WORD? ?) (5N) (HIERARCHY OR HIERARCHIES)
S17	0	S S2 (30N) S16 (30N) (S8 OR S9) (30N) S10 (30N) (S11 OR S12)
S18	182819	S (MARK OR MARKED) () UP OR MARKUP OR SGML OR HTML OR TAG OR TAGS OR TAGGED OR METATAG?
S19	18084	S S18 (10N) (RETRIEVE? ? OR RETRIEVING OR RETRIEVAL OR SEARCH?? OR SEARCHING OR SEEK? ? OR SEEKING OR FIND OR FINDING OR FOUND OR LOCATE? ? OR LOCATING OR LOCATOR? ?)
S20	1	S S19 (30N) (S6 OR S7 OR S16) (30N) (S8 OR S9) (30N) S10 (30N) (S11 OR S12)

; show files

[File 348] EUROPEAN PATENTS 1978-2006/ 200702

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**File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 349] PCT FULLTEXT 1979-2006/UB=20070111UT=20070104

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**File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 350] Derwent WPIX 1963-2006/UD=200703

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**File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit <http://www.dialog.com/dwpi/>.*

Set	Items	Description
S1	187500	S XML OR EXTENSIBLE() MARKUP() LANGUAGE OR (MARK OR MARKED) () UP OR MARKUP OR SGML OR HTML OR TAG OR TAGS OR TAGGED OR METATAG?
S2	3143	S S1 (10N) (QUERY OR QUERIES OR QUERYING OR SQL)
S3	7379	S NODE? ? (3N) (TYPE OR TYPES OR SORT OR SORTS OR KIND OR KINDS)
S4	269217	S ((POSITION? ? OR PLACE OR PLACEMENT? ? OR LEVEL? ? OR SUBLEVEL? OR HIERARCHY OR HIERARCHIES) (3N) (CHARACTER? ? OR STRING? ? OR PHRASE? ? OR KEYWORD? ? OR KEY()WORD? ? OR TERM? ? OR WORD? ?)) OR PARENT? ? OR CHILD OR CHILDREN
S5	69	S (NAME()SPACE? ? OR NAMESPACE? ?) () (ID OR IDENTIFICATION? ? OR IDENTIFIER? ?)
S6	3309481	S LENGTH OR LONG OR SIZE? ?
S7	19171	S ELEMENT? ? (3N) (NAME? ? OR TITLE? ? OR LABEL? ? OR ID OR IDENTIFICATION? ? OR IDENTIFIER? ?)
S8	29148	S ELEMENT? ? (3N) (ATTRIBUTE? ? OR PROPERTY OR PROPERTIES OR CONTENT? ?)
S9	3	S S2 (30N) (S3 OR S4) (30N) (S5 OR S6) (30N) S7 (30N) S8
S10	3	IDPAT (sorted in duplicate/non-duplicate order)
S11	3	IDPAT (primary/non-duplicate records only)
S12	19389	S S1 (10N) (RETRIEVE? ? OR RETRIEVING OR RETRIEVAL OR SEARCH?? OR SEARCHING OR SEEK? ? OR SEEKING OR FIND OR FINDING OR FOUND OR LOCATE? ? OR LOCATING OR LOCATOR? ?)
S13	1	S S12 (30N) (S3 OR S4) (30N) (S5 OR S6) (30N) S7 (30N) S8
S14	1	S S13 NOT S11

; show files

[File 348] **EUROPEAN PATENTS 1978-2006/ 200702**

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**File 348: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 349] **PCT FULLTEXT 1979-2006/UB=20070111UT=20070104**

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**File 349: For important information about IPCR/8 and forthcoming changes to the IC= index, see HELP NEWSIPCR.*

[File 350] **Derwent WPIX 1963-2006/UD=200703**

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**File 350: DWPI has been enhanced to extend content and functionality of the database. For more info, visit <http://www.dialog.com/dwpi/>.*

11/5K/1 (Item 1 from file: 348) Links

EUROPEAN PATENTS

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02033826

Method for evaluating XML twig queries using index structures and relational query processors.

Ein Verfahren zur Evaluierung von XML Pfadanfragen anhand von Indexstrukturen und relationalen Anfrageprozessoren.

Methode pour evaluer des requetes sur des portions arborescentes utilisant des structures d'index et processeurs de requetes relationnels.

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	Country	Number	Kind	Date	
Patent	EP	1635272	A2	20060315	(Basic)
	EP	1635272	A3	20060322	
Application	EP	2005270053		20050907	
Priorities	US	937641		20040909	

Designated States:

AT; BE; BG; CH; CY; CZ; DE; DK; EE; ES;
FI; FR; GB; GR; HU; IE; IS; IT; LI; LT;
LU; LV; MC; NL; PL; PT; RO; SE; SI; SK;

TR;

Extended Designated States:

AL; BA; HR; MK; YU;

IPC	Level	Value	Position	Status	Version	Action	Source	Office
G06F-0017/30	A	I	F	B	20060101	20060124	H	EP

Abstract EP 1635272 A3

A framework defining a family of index structures useful in evaluating XML path expressions (i.e., twigs) in XML database is disclosed. Within this framework, two particular index structures with different space-time tradeoffs are presented that prove effective for the evaluation of twigs with value conditions. These index structures can be realized using access methods of an underlying relational database system. Experimental results show that the indices disclosed achieve significant improvement in performance for evaluating twig queries as compared with previously proposed XML path indices.

Abstract Word Count: 85

NOTE: 8b

NOTE: Figure number on first page: 8b

Type	Pub. Date	Kind	Text
Application:	20060315	A2	Published application without search report
Search Report:	20060322	A3	Separate publication of the search report
Change:	20060906	A2	Title of invention (German) changed: 20060906
Change:	20060906	A2	Title of invention (English) changed: 20060906
Change:	20060906	A2	Title of invention (French) changed: 20060906
Change:	20060913	A2	Title of invention (German) changed: 20060913
Change:	20060913	A2	Title of invention (English) changed: 20060913
Change:	20060913	A2	Title of invention (French) changed: 20060913
Change:	20060927	A2	Title of invention (German) changed: 20060927
Change:	20060927	A2	Title of invention (English) changed: 20060927
Change:	20060927	A2	Title of invention (French) changed: 20060927
Change:	20061129	A2	Title of invention (German) changed: 20061129
Change:	20061129	A2	Title of invention (English) changed: 20061129
Change:	20061129	A2	Title of invention (French) changed: 20061129

Publication: English

Procedural: English

Application: English

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200611	1007
SPEC A	(English)	200611	8992
Total Word Count (Document A) 10001			
Total Word Count (Document B) 0			
Total Word Count (All Documents) 10001			

Specification: ...FIG. 3. For example, the value index in Lore (e.g., as described in R. Goldman, J. McHugh and J. Widom, "From semistructured data to **XML**: Migrating the Lore data model and **query** language," WebDB Workshop, 1999) returns the ID of an **attribute** or **element** given its tag **name** and value. This index may be viewed as a B+-tree index on the SchemaPath and LeafValue, where SchemaPath consists of paths with **length** one (i.e., the tag name), and the last ID in IdList is returned.

The forward link index in Lore, supra, returns the **ID** of an **element** or **attribute** given its tag name and the ID of its **parent**. This may be viewed as a B+-tree index on HeadId and SchemaPath, where HeadId is the start ID of the path, SchemaPath has **length** one, and the last ID in IdList is returned.

Similarly, the DataGuide (e.g., R. Goldman and J. Widom, "DataGuides: Enabling query formulation and optimisation...

11/5K/3 (Item 3 from file: 349) [Links](#)

PCT FULLTEXT

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00777960

AUTOMATED PRODUCT DESIGNER SYSTEM AND METHOD
SYSTEME ET PROCEDE DE CONCEPTION AUTOMATISEE DE PRODUITS

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	Country	Number	Kind	Date
Patent	WO	200111491	A1	20010215
Application	WO	2000US21369		20000804
Priorities	US	99147338		19990806

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/21	Main

Publication Language: English

Filing Language: English

Fulltext word count: 12986

English Abstract:

A system and method for designing a graphics product on-line. When a request to design a product is received, user personal information and preference are recorded (125), a template and a graphic design in accordance with the user personal information and preferences are retrieved and the templates (130), graphic design and at least a portion of the user personal information are combined to form a graphic product (135), which is thereafter made available to the user on-line (150). In the preferred embodiment, front end web servers communicate with on-line users while design activities and data storage functions are distributed to different servers, whereby the overall system is more stable and easily scalable.

French Abstract:

L'invention concerne un systeme et un procede de conception d'un produit graphique en ligne, lesquels consistent, lors de la reception d'une demande de conception d'un produit, a enregistrer (125) des informations et preferences personnelles utilisateurs, a extraire une matrice et une conception graphique conformes a ces informations et preferences, et a combiner cette matrice (130), la conception graphique et au moins une portion des informations, afin de former un produit graphique (135), lequel devient ensuite disponible pour l'utilisateur en ligne (150). Dans le mode de realisation prefere, des serveurs frontaux du Web communiquent avec des utilisateurs en ligne tandis que les activites de conception et les fonctions de stockage de donnees sont reparties entre les differents serveurs, de sorte que le systeme global est plus stable et plus facilement evolutif.

Type	Pub. Date	Kind	Text
Publication	20010215	A1	With international search report.
Publication	20010215	A1	With amended claims.
Examination	20011011		Request for preliminary examination prior to end of 19th month from priority date
Correction	20020912		Corrected version of Pamphlet:
Republication	20020912	A1	With international search report.
Republication	20020912	A1	With amended claims.

Detailed Description:

```

...version" 1.0" encoding"UTF-8">
<ProductType>
<desc>Sample Product Type</desc>
<textfield id="Field F">
<group> I </group>
<locked>
<display>Enter a Value</display>
<size>40</size >
<default>liveprint.com</default>
</textfield>
- 31

```

<ProductType>

To parse this product type into a ColdFusion TM query, the following steps are performed.

I Create a... ..example, assume the product type file path is

"c:

work

ptype.xml' DFParse can now be invoked with the correct parameters.

```

<CFX-DFParse CMD="ReadType" XML-IN="c:

```

work

ptype.xml"

```

QUERY ="pQuery" INDEX="I 19>

```

DFParse reads the product type **XML** file, validates the contents of the file, and builds the CF query. A single row will be added to the query (because the product type... ..will have FieldName = "FieldI", Value = "livepnint.com", IsMandatory--"Y", DisplayName="Enter a Value", Width="40", and 32 Enabled="+". The following table shows the relationship of **query names** to **XML elements**.

FieldName **Id** attribute of textfield

Value Default

IsMandatory" Y" if required exists, otherwise "N"

DisplayNaine Display

Width Size

Enabled 'Y' if field exists if not, however, this only applies to rows that existed in the query prior to calling DFParse.

The index parameter affects the **position** in the enabled **string** to which the 'Y' or '2' is applied.

The ColdFusionTm query "pQuery" now looks like this.

FieldName	Field I
Value	Liveprint.com
IsMandatory	Y
DisplayName	...

14/5K/1 (Item 1 from file: 349) [Links](#)

PCT FULLTEXT

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00861529

**METHOD AND APPARATUS FOR EFFICIENT MANAGEMENT OF XML DOCUMENTS METHOD
AND APPARATUS FOR EFFICIENT MANAGEMENT OF XML DOCUMENTS
PROCEDE ET APPAREIL DE GESTION EFFICACE DE DOCUMENTS XML**

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Legal Representative:

- **KUDIRKA Paul E(agent)**
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	Country	Number	Kind	Date
Patent	WO	200195155	A2-A3	20011213
Application	WO	2001US17726		20010601
Priorities	US	2000588195		20000606

Designated States: (All protection types applied unless otherwise stated - for applications 2004+)

[EP] AT; BE; CH; CY; DE; DK; ES; FI; FR; GB;
GR; IE; IT; LU; MC; NL; PT; SE; TR;

[OA] BF; BJ; CF; CG; CI; CM; GA; GN; GW; ML;
MR; NE; SN; TD; TG;

[AP] GH; GM; KE; LS; MW; MZ; SD; SL; SZ; TZ;
UG; ZW;

[EA] AM; AZ; BY; KG; KZ; MD; RU; TJ; TM;

Main International Patent Classes (Version 7):

IPC	Level
G06F-017/30	Main
G06F-017/22	

Publication Language: English

Filing Language: English

Fulltext word count: 27332

English Abstract:

An in-memory storage manager represents XML-compliant documents as a collection of objects in memory. The collection of objects allows the storage manager to manipulate the document, or parts of the document with a consistent interface and to provide for features that are not available in conventional XML documents, such as element attributes with types other than text and documents that contain binary rather than text information. In addition, in the storage manager, the XML-compliant document is associated with a schema document which defines the arrangement of the document elements and attributes. The schema data associated with a document can contain a mapping between document elements and program code to be associated with each element. The storage manager further has methods for retrieving the code from the element tag. The retrieved code can then be invoked using attributes and content from the associated element and the element then acts like a conventional object. Further, the storage manager allows real-time access by separate process operating in different contexts. The objects that are used to represent the document are constructed from common code found locally in each process. In addition, the data in the objects is also stored in memory local to each process. The local memories are synchronized by means of a distributed memory system that continually equates the data copies of the same element in different processes. Client-specified collections are managed by a separate collection manager. The collection manager maintains a data structure called a "waffle" that represents the XML data structures in tabular form. A record set engine that is driven by user commands propagates a set of updates for a collection to the collection manager. Based on those updates, the collection manager updates index structures and may notify waffle users via the notification system.

French Abstract:

L'invention concerne un gestionnaire de stockage en memoire qui represente des documents conformes au langage XML sous forme de collection d'objets en memoire. La collection d'objets permet au gestionnaire de stockage de manipuler un document, ou des parties de document avec une interface constante et de fournir des caracteristiques non disponibles dans des documents XML habituels, telles que des attributs d'elements avec des types autres que du texte et des documents qui contiennent des informations binaires plutot que du texte. Dans le gestionnaire de stockage, le document conforme au langage XML est, par ailleurs, associe a un document schema qui definit l'agencement des elements et des attributs du document. Les donnees schema associees a un document peuvent contenir une application entre les elements de document et le code de programme a associer a chaque element. Le gestionnaire de stockage possede en outre des procedes d'extraction du code de l'etiquette de l'element. Le code extrait peut alors etre appele au moyen des attributs et du contenu provenant de l'element associe, l'element agit ensuite comme un objet classique. Le gestionnaire de stockage permet egalement un acces en temps reel par un processus separe operant dans differents contextes. Les objets qui sont utilises pour représenter le document sont construits a partir du code commun trouve localement dans chaque entite d'execution. Les donnees dans les objets sont aussi stockes dans la memoire, localement par rapport a chaque entite d'execution. Les memoires locales sont synchronisees au moyen d'un systeme de memoire distribuee qui egalise les copies de donnees du meme element dans differentes entites d'execution. Des collections specifiques au client sont geres par un gestionnaire de collection distinct. Le gestionnaire de donnees maintient une structure de donnees appelee <= gaufre>= qui represente les stuctures de donnees XML sous forme tabulaire. Un moteur d'ensembles d'enregistrements entraine par des commandes utilisateur transmet un ensemble de mises a jour relatives a une collection au gestionnaire de collection. Sur la base de ces mises a jour, le gestionnaire de collection met a jour des structures d'indices et peut informer les utilisateurs de la <= gaufre>= par l'intermediaire du systeme de notification.

Type	Pub. Date	Kind	Text
Publication	20011213	A2	Without international search report and to be republished upon receipt of that report.

Examination	20020214		Request for preliminary examination prior to end of 19th month from priority date
Search Rpt	20031002		Late publication of international search report
Republication	20031002	A3	With international search report.
Republication	20031002	A3	Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.

Detailed Description:

...element, Found is FALSE and no value is returned.

46
w0 01/95155 PCT/USO1/17726
FindAttributeAsLong (BSTR i
Name, Gets any arbitrary attribute as **Long**. The
long * cLpValue, VARIANT-BOOL attribute must have been set as the given
p
pFound); type or be specified as that type in the
document... ..attribute is not in the element,
VARIANT-BOOL * o
pFound); Found is FALSE and no value is returned.

FindContentElementByName (BSTR Within the context of this **element**, find an
i **Name**, IGrooveElement **element** with the specified tag name. If the'
c@
ppElement, VARIANT-BOOL element is not found, Found is FALSE and
o
pFound); no element reference is returned.

FindContentElementByNameAndAttribut Within the context of. this element, **find** an
e (BSTR i -**Name**, BSTIR **element** with the specified **tag** name and
i-AttributeName, BSTIR i-AttributeValue, attribute name with the specified attribute IGrooveElement ** o
-ppElement, value. If the element is not found, Found is
VARIANT BOOL * 0 pFound); FALSE and no element reference is
returned

FindParent (IGrooveElement Gets an object's **parent** element. An
o
ppParent, VARIANT element can have only a single **parent** and
p
plFound); may only be referenced from a single
content entry of a single element. If the
element does not have a **parent**, Found is
FALSE and no value is returned.

GetActuate (GrooveXLinkActuate Returns the value of the Actuate parameter

o
pActuate); in this element's link attribute.

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w0 01/95155 PCT/US01/17726
GetAttributeCount (long c@
pCount); Returns the number of **attributes** an **element**
has.

GetContentCount (long o
pCount); Returns the number of content and text
entries in this element.

GetContentType (long (inverted exclamation mark)
Ordinal, Returns the type... ..GetShow (GrooveXLinkShow Returns the value of the Show parameter in
p
pShow); in this element's link attribute.

IncrementAttributeAsLong (BSTR Adds 1 to the value of a **long** integer type
i-Name, **long** * c@
pOldValue); attribute.

InsertContent (long i.Ordinal, BSTR Inserts the text entry at the specified ordinal
i-Text, GrooveContentType i
Type); location
InsertContentElement (long i-Ordinal, Inserts the element at the specified ordinal
(inverted exclamation mark)GrooveElement * LpElement); location
InsertContentProcessingInstruction (long Inserts a Text processing instruction, with i-Ordinal... ..been set
as the given type or be specified as that type
in the document schema.

OpenAttributeAsLong (BSTR i
Name, Gets any arbitrary attribute as **Long**. The
long * p
pValue); attribute must have been set as the given
type or be specified as that type in the
document schema.

OpenAttributeAsVARIANT (BSTR... ..inverted exclamation mark) of the element's attributes as ((inverted
exclamation mark)GrooveStringStringEnum text.

p
ppAttributes);
OpenAttributeVariantEnum Enumerates all (inverted exclamation mark) of the element's **attributes** as ((inverted
exclamation mark)GrooveNameValueEnum variant data types.

o

ppEnum);
OpenBoundCode (IGrooveBoundCode Returns an instance of the object bound to
o
ppBoundCode); the element.

OpenContentComment ...BSTR * o
pComment); contained in this element at the specified
Ordinal position.

so
w0 01/95155 PCT/USO1/17726
OpenContentElement (long i-Ordinal, Returns the **child** element interface that is a (inverted exclamation
mark)GrooveElement ** o-ppElement); contained in this element at the specified Ordinal position.

OpenContentElementByName (BSTR Within the context of this **element**, find an i-Name, (inverted exclamation
mark)GrooveElement element with the specified tag name and
c@
ppElement); return its interface.

OpenContentElementByNameAndAttribute Within the context of this element, **find** an
te (BSTR i
Name, BSTR **element** with the specified **tag** name and
i-AttributeName, BSTR i-AttributeValue, attribute name with the specified attribute
IGrooveElement ** o
ppElement); value.

OpenContentElementEnum Return is an enumeration of all (inverted exclamation mark) **child content**
(IGrooveElementEnum **elements** (non-recursively).

o
ppElements);
OpenContentElementEnumByName Returns an enumeration of all **child** content
(BSTR i
Name, IGrooveElementEnum ** **elements** (non-recursively). Only elements
o
ppElements); with the given name will be returned.

OpenContentElementEnumByNameAndAttribute Return is an enumeration of all (inverted exclamation mark) content
Attribute (BSTR i
Name, BSTR elements within the scope of this element
i-AttributeName, BSTR i-AttributeValue, that have the specified tag name and
(inverted exclamation mark)GrooveElementEnum ** o
ppElements... ...17726
OpenContentProcessingInstructionText Returns the PI text of the XML processing
(long (inverted exclamation mark)-Ordinal, BSTR * p
pText); instruction at the specified ordinal position.

OpenContentText (**long** (inverted exclamation mark)
Ordinal, BSTR Returns the context text at the specified
* o
pText); ordinal position.

OpenContentTextEnum Enumerates the text entries
((inverted exclamation mark)GrooveBSTREnum...inverted exclamation mark)GrooveReadOnlyElement.

TABLE 16

interface IgrooveReadOniyElement: (inverted exclamation mark)GrooveElement
OperiReadOnlyParent Returns a read-only element interface to the
((inverted exclamation mark)GrooveReadOniyElement **parent** of this element.

o
ppParent);
OpenContentReadOniyElement (long Returns a read-only element interface to the
(inverted exclamation mark)
Ordinal, IgrooveReadOniyElement **content element** at the specified Ordinal
c@
ppElement); position.

OpenContentReadOnlyElementByNam Within the context of this element, **find** an
e (BSTR i - **Name, element** with the specified **tag** name and
(inverted exclamation mark)GrooveReadOniyElement return its read-only interface.

o
ppElement);
57
w0 01/95155 PCT/USO1/17726
FindContentReadOnlyElementByName Within the context of this element, **find** an
(BSTR i
Name, element with the specified **tag** name and
(inverted exclamation mark)GrooveReadOniyElement return its read-only interface. If the element is
o
ppElement, VARIANT-BOOL not found, Found is FALSE and no element
o
pFound); reference is returned.

OpenContentReadOnlyElementEnum Returns an enumeration of all **child content**
(IgrooveReadOnlyElementEnum **elements** read-only interfaces
o
ppElements); (non-recursively).

OpenContentReadOniyElementEnumB Returns an enumeration of al(inverted exclamation mark) **child content**
yName (BSTR i
Name, elements read-only interfaces
IgrooveReadOnlyElementEnum (non-recursively). Only elements with the

o given name will be returned.

ppElements);

Table 17 illustrates an interface 1214 ((inverted exclamation...

Set	Items	Description
S1	14762	S XML OR EXTENSIBLE() MARKUP() LANGUAGE OR (MARK OR MARKED) () UP OR MARKUP OR SGML OR HTML OR TAG OR TAGS OR TAGGED OR METATAG?
S2	745	S S1 (10N) (RETRIEVE? ? OR RETRIEVING OR RETRIEVAL OR SEARCH?? OR SEARCHING OR SEEK? ? OR SEEKING OR FIND OR FINDING OR FOUND OR LOCATE? ? OR LOCATING OR LOCATOR? ? OR QUERY OR QUERIES OR QUERYING OR SQL)
S3	337	S NODE? ? (3N) (TYPE OR TYPES OR SORT OR SORTS OR KIND OR KINDS)
S4	19657	S ((POSITION? ? OR PLACE OR PLACEMENT? ? OR LEVEL? ? OR SUBLEVEL? OR HIERARCHY OR HIERARCHIES) (3N) (CHARACTER? ? OR STRING? ? OR PHRASE? ? OR KEYWORD? ? OR KEY()WORD? ? OR TERM? ? OR WORD? ?)) OR PARENT? ? OR CHILD OR CHILDREN
S5	3	S (NAME() SPACE? ? OR NAMESPACE? ?) () (ID OR IDENTIFICATION? ? OR IDENTIFIER? ?)
S6	885889	S LENGTH OR LONG OR SIZE? ?
S7	3408	S ELEMENT? ? (3N) (NAME? ? OR TITLE? ? OR LABEL? ? OR ID OR IDENTIFICATION? ? OR IDENTIFIER? ?)
S8	0	S ELELMENT? ? (3N) (ATTRIBUTE? ? OR PROPERTY OR PROPERTIES OR CONTENT? ?)
S9	0	S S2 AND (S3 OR S4) AND (S5 OR S6) AND S7

; show files

[File 347] JAPIO Dec 1976-2006/Sep(Updated 061230)

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Set	Items	Description
S1	44412	S XML OR EXTENSIBLE() MARKUP() LANGUAGE
S2	150369	S (MARK OR MARKED)() UP OR MARKUP OR SGML OR HTML OR TAG OR TAGS OR TAGGED OR METATAG?
S3	4375	S S1 (10N) (RETRIEVE? ? OR RETRIEVING OR RETRIEVAL OR SEARCH?? OR SEARCHING OR SEEK? ? OR SEEKING OR FIND OR FINDING OR FOUND OR LOCATE? ? OR LOCATING OR LOCATOR? ?)
S4	87977	S (CHARACTER? ? OR STRING? ? OR PHRASE? ? OR KEYWORD? ? OR KEY()WORD? ? OR TERM? ? OR WORD? ?) (5N) (RETRIEVE? ? OR RETRIEVING OR RETRIEVAL OR SEARCH?? OR SEARCHING OR SEEK? ? OR SEEKING OR FIND OR FINDING OR FOUND OR LOCATE? ? OR LOCATING OR LOCATOR? ?)
S5	154	S S4 (10N) S1
S6	500	S S4 AND S1
S7	4718	S NODE? ? (3N) (TYPE OR TYPES OR SORT OR SORTS OR KIND OR KINDS)
S8	1675484	S ((POSITION? ? OR PLACE OR PLACEMENT? ? OR LEVEL? ? OR SUBLEVEL? OR HIERARCHY OR HIERARCHIES) (5N) (CHARACTER? ? OR STRING? ? OR PHRASE? ? OR KEYWORD? ? OR KEY()WORD? ? OR TERM? ? OR WORD? ?)) OR PARENT? ? OR CHILD OR CHILDREN
S9	1	S (NAME()SPACE? ? OR NAMESPACE? ?)() (ID OR IDENTIFICATION? ? OR IDENTIFIER? ?)
S10	6974237	S LENGTH OR LONG OR SIZE? ?
S11	10562	S ELEMENT? ? (3N) (NAME? ? OR TITLE? ? OR LABEL? ? OR ID OR IDENTIFICATION? ? OR IDENTIFIER? ?)
S12	42713	S ELEMENT? ? (3N) (ATTRIBUTE? ? OR PROPERTY OR PROPERTIES OR CONTENT? ?)
S13	0	S S6 AND (S7 OR S8) AND (S9 OR S10) AND S11 AND S12
S14	0	S S3 AND (S7 OR S8) AND (S9 OR S10) AND S11 AND S12
S15	7715	S S2 (10N) (RETRIEVE? ? OR RETRIEVING OR RETRIEVAL OR SEARCH?? OR SEARCHING OR SEEK? ? OR SEEKING OR FIND OR FINDING OR FOUND OR LOCATE? ? OR LOCATING OR LOCATOR? ?)
S16	0	S S15 AND (S7 OR S8) AND (S9 OR S10) AND S11 AND S12

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Set	Items	Description
S1	179854	S XML OR EXTENSIBLE() MARKUP() LANGUAGE OR (MARK OR MARKED) () UP OR MARKUP OR SGML OR HTML OR TAG OR TAGS OR TAGGED OR METATAG?
S2	6138	S S1 (10N) (QUERY OR QUERIES OR QUERYING OR SQL)
S3	4718	S NODE? ? (3N) (TYPE OR TYPES OR SORT OR SORTS OR KIND OR KINDS)
S4	1648269	S ((POSITION? ? OR PLACE OR PLACEMENT? ? OR LEVEL? ? OR SUBLEVEL? OR HIERARCHY OR HIERARCHIES) (3N) (CHARACTER? ? OR STRING? ? OR PHRASE? ? OR KEYWORD? ? OR KEY()WORD? ? OR TERM? ? OR WORD? ?)) OR PARENT? ? OR CHILD OR CHILDREN
S5	6974245	S LENGTH OR LONG OR SIZE? ?
S6	10562	S ELEMENT? ? (3N) (NAME? ? OR TITLE? ? OR LABEL? ? OR ID OR IDENTIFICATION? ? OR IDENTIFIER? ?)
S7	42713	S ELEMENT? ? (3N) (ATTRIBUTE? ? OR PROPERTY OR PROPERTIES OR CONTENT? ?)
S8	0	S S2 AND (S3 OR S4) AND S5 AND S6 AND S7

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S3	3760	S NODE? ? (3N) (TYPE OR TYPES OR SORT OR SORTS OR KIND OR KINDS)
S4	9568799	S ((POSITION? ? OR PLACE OR PLACEMENT? ? OR LEVEL? ? OR SUBLEVEL? OR HIERARCHY OR HIERARCHIES) (3N) (CHARACTER? ? OR STRING? ? OR PHRASE? ? OR KEYWORD? ? OR KEY()WORD? ? OR TERM? ? OR WORD? ?)) OR PARENT? ? OR CHILD OR CHILDREN
S5	12	S (NAME()SPACE? ? OR NAMESPACE? ?)()(ID OR IDENTIFICATION? ? OR IDENTIFIER? ?)
S6	21792530	S LENGTH OR LONG OR SIZE? ?
S7	14901	S ELEMENT? ? (3N) (NAME? ? OR TITLE? ? OR LABEL? ? OR ID OR IDENTIFICATION? ? OR IDENTIFIER? ?)
S8	22272	S ELEMENT? ? (3N) (ATTRIBUTE? ? OR PROPERTY OR PROPERTIES OR CONTENT? ?)
S9	1	S S2 (30N) (S3 OR S4) (30N) (S5 OR S6) (30N) S7 (30N) S8
S10	17370	S S1 (10N) (QUERY OR QUERIES OR QUERYING OR SQL)
S11	1	S S10 (30N) (S3 OR S4) (30N) (S5 OR S6) (30N) S7 (30N) S8
S12	0	S S11 NOT S10

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Hiding Tree Structured Data and Queries from Untrusted Data Stores

Lin, Ping; Candan, K Selcuk

Information Systems Security v14n4 pp: 10-26

Sep/Oct 2005

ISSN: 1065-898X Journal Code: ISTS

Word Count: 8221

Text:

...for the data store to guess the target node from the redundancy set if m is small, it becomes much more difficult to guess the **parent-child** relations between sequential node accesses. And the probability to discover a path is reduced exponentially with the increase of length of the path hence...

...how our protocol can be extended to provide private access to XML documents.

In an XML document, each node of the tree corresponds to an **element** or an **attribute** of an **element** in the XML document. The root node contains the document's root. A child node corresponds to a sub-**element** or an **attribute** of the **parent** node. For each **child** of a node, in addition to the pointer to the **child**, there can be a tag in the node that indicates the name of the **child** node. If the **child** is a sub-**element**, the **name** is the **element** tag of the sub-**element**. If the **child** is an attribute, the name is the attribute name.

XML query processing is concerned with **finding** the instances of a given pattern tree (query tree or twig) in a given target tree (XML document or document collection): given directed, labeled trees...